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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-16-33 **Date: 31/07/2021**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05

Improvements to Roads and Drains at Chokkanahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Agency : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/150/2020-21

Date of Receipt : 05-07-21

Customer ID : Drain Side Wall Concrete (Chokkanahalli Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	03/07/2021	31/07/2021	150.65 X 151.00 X 150.14	22748	**8.626**	533.0	23.4	23.3
2	Drain Side Wall Concrete	M20	03/07/2021	31/07/2021	151.05 X 150.24 X 151.68	22693	**8.320**	514.6	22.7	
3	Drain Side Wall Concrete	M20	03/07/2021	31/07/2021	151.51 X 150.02 X 149.43	22730	**8.801**	540.7	23.8	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-02-16-33** **Date: 10/07/2021**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05

Improvements to Roads and Drains at Chokkanahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Agency : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/150/2020-21

Date of Receipt : 05-07-21

Customer ID : Drain Side Wall Concrete (Chokkanahalli - Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	03/07/2021	10/07/2021	151.06 X 150.14 X 150.39	22681	**8.512**	428.0	18.9	18.8
2	Drain Side Wall Concrete	M20	03/07/2021	10/07/2021	150.40 X 150.13 X 149.34	22580	**8.602**	421.2	18.7	
3	Drain Side Wall Concrete	M20	03/07/2021	10/07/2021	151.35 X 149.49 X 149.98	22626	**8.820**	429.3	19.0	

• The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-02-16-33** **Date: 31/07/2021**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05

Improvements to Roads and Drains at Chokkanahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Agency : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/150/2020-21

Date of Receipt : 05-07-21

Customer ID : Drain Side Wall Concrete (Chokkanahalli - Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	03/07/2021	31/07/2021	150.83 X 150.70 X 149.80	22730	**8.626**	538.2	23.7	23.1
2	Drain Side Wall Concrete	M20	03/07/2021	31/07/2021	149.32 X 150.46 X 149.38	22466	**8.320**	500.7	22.3	
3	Drain Side Wall Concrete	M20	03/07/2021	31/07/2021	149.07 X 150.36 X 151.54	22414	**8.801**	525.7	23.5	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-02-16-33** **Date: 21/07/2021**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05

Improvements to Roads and Drains at Chokkanahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Agency : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/150/2020-21

Date of Receipt : 16-07-21

Customer ID : Drain Side Wall Concrete (Akshaya Layout Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	14/07/2021	21/07/2021	149.22 X 150.61 X 149.97	22475	**8.512**	415.4	18.5	18.6
2	Drain Side Wall Concrete	M20	14/07/2021	21/07/2021	151.91 X 149.20 X 150.36	22666	**8.602**	424.1	18.7	
3	Drain Side Wall Concrete	M20	14/07/2021	21/07/2021	149.12 X 150.55 X 150.50	22451	**8.820**	418.3	18.6	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/08/2021

Lab ID : CP-2021-02-16-33

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05

Improvements to Roads and Drains at Chokkanahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Agency : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/150/2020-21

Date of Receipt : 16-07-21

Customer ID : Drain Side Wall Concrete (Akshaya Layout Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	14/07/2021	11/08/2021	149.29 X 150.95 X 150.71	22535	**8.626**	521.2	23.1	23.2
2	Drain Side Wall Concrete	M20	14/07/2021	11/08/2021	150.50 X 151.78 X 151.76	22843	**8.320**	516.8	22.6	
3	Drain Side Wall Concrete	M20	14/07/2021	11/08/2021	150.77 X 151.35 X 150.85	22819	**8.801**	543.7	23.8	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-02-16-33** **Date: 31/07/2021**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05

Improvements to Roads and Drains at Chokkanahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Agency : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/150/2020-21

Date of Receipt : 26-07-21

Customer ID : Culvert Bottom Slab Concrete (Chokkanahalli Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	24/07/2021	31/07/2021	149.41 X 149.17 X 150.35	22288	**8.512**	418.8	18.8	18.7
2	Culvert Bottom Slab Concrete	M20	24/07/2021	31/07/2021	150.91 X 150.93 X 151.40	22776	**8.602**	429.9	18.9	
3	Culvert Bottom Slab Concrete	M20	24/07/2021	31/07/2021	150.54 X 150.80 X 150.27	22700	**8.820**	421.2	18.6	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-02-16-33** **Date: 21/08/2021**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05

Improvements to Roads and Drains at Chokkanahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Agency : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/150/2020-21

Date of Receipt : 26-07-21

Customer ID : Culvert Bottom Slab Concrete (Chokkanahalli Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	24/07/2021	21/08/2021	150.37 X 150.29 X 150.63	22601	**8.626**	536.2	23.7	23.0
2	Culvert Bottom Slab Concrete	M20	24/07/2021	21/08/2021	149.62 X 150.87 X 151.59	22574	**8.320**	499.8	22.1	
3	Culvert Bottom Slab Concrete	M20	24/07/2021	21/08/2021	151.01 X 151.97 X 149.70	22949	**8.801**	533.6	23.3	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/08/2021

Lab ID : **CP-2021-02-16-33**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05

Improvements to Roads and Drains at Chokkanahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Agency : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/150/2020-21

Date of Receipt : 29-07-21

Customer ID : Culvert Side Wall Concrete (Chokkanahalli Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	27/07/2021	03/08/2021	151.71 X 151.11 X 150.14	22925	**8.512**	434.0	18.9	18.8
2	Culvert Side Wall Concrete	M20	27/07/2021	03/08/2021	151.62 X 149.15 X 151.23	22613	**8.602**	421.9	18.7	
3	Culvert Side Wall Concrete	M20	27/07/2021	03/08/2021	150.01 X 151.46 X 150.86	22720	**8.820**	428.0	18.8	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-02-16-33** **Date: 24/08/2021**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05

Improvements to Roads and Drains at Chokkanahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Agency : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/150/2020-21

Date of Receipt : 29-07-21

Customer ID : Culvert Side Wall Concrete (Chokkanahalli Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	27/07/2021	24/08/2021	150.98 X 150.06 X 149.05	22656	**8.626**	533.0	23.5	23.2
2	Culvert Side Wall Concrete	M20	27/07/2021	24/08/2021	151.11 X 150.32 X 149.83	22714	**8.320**	517.5	22.8	
3	Culvert Side Wall Concrete	M20	27/07/2021	24/08/2021	151.55 X 150.15 X 150.78	22756	**8.801**	528.6	23.2	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2021-02-16-33** **Date: 14-06-21**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05

Improvements to Roads and Drains at Jakkur Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Agency : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/150/2020-21

Date of Receipt : 11-06-21

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 12-06-21

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	_
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-02-16-33** **Date: 10-07-21**
Project Name	:	Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05 Improvements to Roads and Drains at Jakkur Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division
Agency	:	Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/150/2020-21
Date of Receipt	:	11-06-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	12-06-21
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-02-16-33** **Date: 14-06-21**
Project Name	:	Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05 Improvements to Roads and Drains at Jakkur Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division
Agency	:	Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/150/2020-21
Date of Receipt	:	11-06-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-06-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-02-16-33** **Date: 14-06-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	-
4	Bulk Density(Loose) (Kg/l)	1.48	-
5	Bulk Density(Compacted) (Kg/l)	1.52	-
6	Water Absorption(%)	0.22	-

* The results obtained are satisfactory as per standard requirements.

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R. KARTHIK RECHAN
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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-02-16-33** **Date: 14-06-21**
Project Name	:	Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05 Improvements to Roads and Drains at Jakkur Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division
Agency	:	Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78
Customer Reference	:	EE(Project)/Ynk Zone/WO/150/2020-21
Date of Receipt	:	11-06-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-06-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-02-16-33** **Date: 14-06-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Date: 14-06-21

Lab ID	:	**CP-2021-02-16-33**
Project Name	:	Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05 Improvements to Roads and Drains at Jakkur Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division
Agency	:	Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/150/2020-21
Date of Receipt	:	11-06-21
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	11-06-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-02-16-33** **Date: 14-06-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST RESULTS OF STEEL

Lab ID : **CP-2021-02-16-33** **Date: 12-06-21**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05

Improvements to Roads and Drains at Jakkur Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Agency : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/150/2020-21

Date of Receipt : 11-06-21

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 11-06-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2021-02-16-33** **Date: 28-06-21**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05
Improvements to Roads and Drains at Jakkur Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Agency : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/150/2020-21

Date of Receipt : 24-06-21

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 24/06/2021

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	79.3	17.7	16.5	20.6
2	Cover Slab-2	75.49	100.52	1.122	4475	78.3	17.5	16.3	20.3
3	Cover Slab-3	75.50	100.51	1.118	4476	78.9	17.6	16.4	20.5

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/07/2021

Lab ID : **CP-2021-02-16-33**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05

Improvements to Roads and Drains at Jakkur Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Agency : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/150/2020-21

Date of Receipt : 28-06-21

Customer ID : Drain Bottom Slab Concrete (Govt School Opposite Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	26/06/2021	03/07/2021	151.56 X 150.41 X 149.22	22795	**8.512**	422.2	18.5	18.7
2	Drain Bottom Slab Concrete	M20	26/06/2021	03/07/2021	151.34 X 151.65 X 150.91	22951	**8.602**	427.7	18.6	
3	Drain Bottom Slab Concrete	M20	26/06/2021	03/07/2021	150.17 X 151.99 X 151.47	22825	**8.820**	429.4	18.8	

* The results obtained are satisfactory as per standard requirements.

29.06.21

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-16-33 **Date: 24/07/2021**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05

Improvements to Roads and Drains at Jakkur Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Agency : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/150/2020-21

Date of Receipt : 28-06-21

Customer ID : Drain Bottom Slab Concrete (Govt School Opposite Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	26/06/2021	24/07/2021	149.35 X 150.08 X 151.22	22415	**8.626**	536.4	23.9	23.4
2	Drain Bottom Slab Concrete	M20	26/06/2021	24/07/2021	150.60 X 151.88 X 149.68	22874	**8.320**	512.0	22.4	
3	Drain Bottom Slab Concrete	M20	26/06/2021	24/07/2021	149.37 X 150.25 X 151.01	22444	**8.801**	534.5	23.8	

* The results obtained are satisfactory as per standard requirements.

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